

CLAIM AMENDMENTS

1. (withdrawn) A method for creating photo-quality image with an ink-jet ink comprising:

(a) providing an inorganic porous media substrate;

(b) providing an aqueous ink-jet ink comprising an ink vehicle and an effective amount of a metallized dye having at least one heterocyclic nitrogen ring and a diazo bond wherein the heterocyclic nitrogen is chelated or complexed to a transition metal; and

(c) jetting the aqueous ink-jet ink onto the inorganic porous media substrate.

2. (withdrawn) A method as in claim 1 wherein the metallized dye comprises a pyridine group bonded to a quinolinol group through an azo bond.

3. (withdrawn) A method as in claim 2 wherein the metallized dye is in a dicarboxalate form.

4. (withdrawn) A method as in claim 1 wherein the metallized dye comprises a pyridine group bonded to a naphthalene group through an azo bond.

5. (withdrawn) A method as in claim 1 wherein the porous media is a paper substrate having coated thereon an inorganic coating selected from the group consisting of silica, alumina, and combinations thereof.

6. (withdrawn) A method as in claim 1 wherein the inorganic porous media substrate has a pore size ranging from about 5 to 30 nanometers in width.

7. (withdrawn) A method as in claim 1 wherein the transition metal is selected from the group consisting of nickel, copper, iron, cobalt, and combinations thereof.

8. (withdrawn) A method as in claim 1 wherein the metallized dye is present in the aqueous ink-jet ink at from 0.1% to 5% by weight.

9. (withdrawn) A method as in claim 1 wherein the metallized dye has a ligand to transition metal molar ratio of 1:1.

10. (withdrawn) A method as in claim 1 wherein the metallized dye has a ligand to transition metal molar ratio of 2:1.

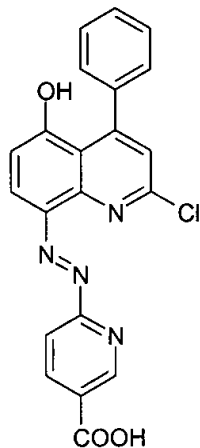
[Claims 11-20 (canceled)]

21. (previously presented) A photo-quality image on a substrate comprising:

(a) a porous media substrate; and

(b) an image on the substrate provided by an aqueous ink-jet ink comprising an ink vehicle, and a nickel metallized dye having a ligand to nickel molar ratio of 2:1, wherein said ligand has the structure:

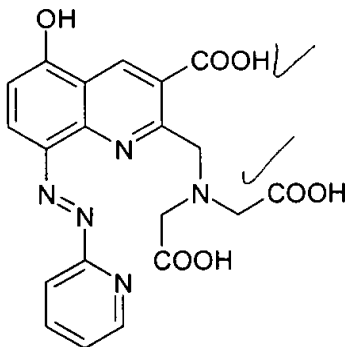
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22. (previously presented) A photo-quality image on a substrate as in claim 21, wherein the aqueous ink-jet ink is prepared by raising the pH of the ink with a pH adjuster to dissolve the nickel metallized dye, followed by lowering the pH to form the final ink product.

23. (canceled)
24. (canceled)

25. (previously presented) A photo-quality image on a substrate comprising:
(a) a porous media substrate; and
(b) an image on the substrate provided by an aqueous ink-jet ink comprising an ink vehicle, and a nickel metallized dye having a ligand to nickel molar ratio of 1:1, wherein said ligand has the structure:

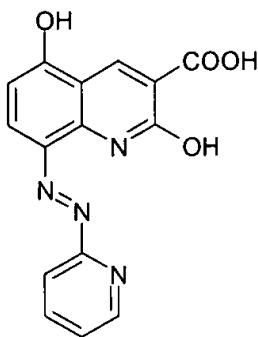


26. (currently amended) A photo-quality image on a substrate as in claim 25 27, wherein the nitrogen and the two carboxyl groups of the quinolinol group are bound to the nickel, satisfying the coordination number of the nickel.

27. (previously presented) A photo-quality image on a substrate comprising:

(a) a porous media substrate; and

(b) an image on the substrate provided by an aqueous ink-jet ink comprising an ink vehicle, and a nickel metallized dye having a ligand to nickel molar ratio of 1:1, wherein said ligand has the structure:



28. (withdrawn) A photo-quality image on a substrate as in claim 29, wherein the ink-jet ink includes a small amount of a pyridine solvent to improve the solubility of the nickel metallized dye in the ink-jet ink.

29. (withdrawn) A photo-quality image on a substrate comprising:

(a) a porous media substrate; and

(b) an image on the substrate provided by an aqueous ink-jet ink comprising an ink vehicle, and a nickel metallized dye having a ligand to nickel molar ratio of 2:1, wherein said ligand has the structure:

